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TITANIUM CATALYST COMPONENT FOR POLYMERIZING ETHYLENE, ETHYLENE POLYMERIZATION CATALYST CONTAINING THE COMPONENT, AND POLYMERIZATION OF ETHYLENE USING THE CATALYST

Patent number:	JP7242706
Publication date:	1995-09-19
Inventor:	YASHIKI TSUNEO; others: 01
Applicant:	MITSUI PETROCHEM IND LTD
Classification:	
- international:	C08F4/658; C08F10/02
- european:	
Application number:	JP19940033863 19940303
Priority number(s):	

Abstract of **JP7242706**

PURPOSE:To obtain a polymerization catalyst for producing ethylene polymers with a narrow particle size distribution by incorporating a Ti catalyst component prepared by reacting a Ti complex made from a specific alcoholic Mg-Al complex and a tetravalent Ti compound, an organic Al compound and an organic Si compound.

CONSTITUTION:A solution comprising a halogenated magnesium compound (preferably MgCl2), a 6C or higher alcohol (preferably 2-ethylhexanol) and a hydrocarbon solvent is brought into contact with an organoaluminum compound (particularly preferably triethylaluminium) to prepare a solid Mg-Al complex containing Mg, Al, a halogen and a 6C or higher alkoxy group and alcohol. Then a Ti complex comprising a tetravalent Ti compound in which the molar ratio of alkoxy and alcohol to Ti is 0.26-6 is prepared from the Mg-Al complex and a tetravalent titanium compound (preferably TiCl4). The Ti complex and an organosilicon compound (alkoxysilane, aryloxysilane) are reacted in an inert solvent in the presence of an organoaluminum compound to produce a titanium catalyst component. Ethylenic polymers are produced by using a polymerization catalyst comprising the titanium catalyst component.